

Road Transport and Accident Statistics

Year 1994

Introduction

In addition to the usual data on registration of vehicles and accidents, this issue presents three new tables namely: (i) Imports of motor vehicles (ii) Imports of vehicle spare parts and (iii) Statistics on hit and run accidents.

1.1 Vehicles registered as at end of 1994

The number of vehicles as registered at the National Transport Authority (NTA) by the end of 1994 was about 180,900 compared to 168,200 in 1993 thus showing an increase of 7.6%.

The type composition of that fleet of vehicles has remained more or less the same as that of the previous year: just over 50% (92,970) were motorised two wheelers and about 34% (61,378) passenger cars, the remaining 15% consisted of vans (10,292), lorries (8,559) and buses (2,276). It is worth pointing out that the growth rate over the last five years (1989 - 1994) shows that the vehicles fleet was increasing at an average annual rate of 11%.

1.2 Net addition during 1994

During the period under review, some 14,700 new and used imported vehicles were registered while the number that was re-registered was about 1900. However since some 3,900 vehicles were put off the road during the same period, the net addition to the vehicle park worked out to 12,700. This increase is nearly the same as that observed in 1993 but about 19% lower than that in 1992 (15,100).

1.3 Passenger transport

By the end of December of 1994, the total number of passenger cars (cars and dual purpose vehicles) reached 61,400 representing an increase of 7% over the previous year. The corresponding increase for 1993 was about 7%, too. On average, every month, some 450 passenger cars were registered while about 110 were put off the road.

The ratio of the number of passenger cars per 1000 population in 1994 has remained more or less the same as in 1993, that is, at around 53.

A significant increase has been noted in the registration of used imported cars. In fact the ratio of used imported cars to new cars which stood at 0.45 in 1991 reached nearly 0.80 in 1994.

As shown in Table 1.3, the percentage of passenger cars that were under 10 years rose from 57% in 1993 to 60% in 1994. It is noted that 66% of all passenger cars in 1994 were under 15 years. However, the median age of passenger cars remained more or less at 8 years.

The number of public buses registered at the NTA by the end of December 1994 reached 1,715, an increase of 3% over the previous year. Some 200 new buses were registered while some 140 were put off the road thus giving a net increase of 60.

About 80% of the fleet of registered buses in 1994 was below 12 years old compared to around 75% in 1993 (Table 1.4 refers). The median age for the period under review worked out to be 6 years as compared to 5 years a year ago.

1.4 Imports of motor vehicles and spare parts (Table 1.5 and 1.6)

Data on imports of motor vehicles for the first nine months of 1994 show imports valued at Rs 1,352 million (c.i.f) which represent an increase of 11% over the corresponding period of 1993.

The market continues to be dominated by Japan which accounted for 58% of the total followed by France (12%) and U.K (8%) respectively.

Volume-wise, imports of vehicles' spare parts decreased to 1,153 metric tons from 1,234 metric tons and value-wise, to Rs 124 million from Rs 136 million for the corresponding period in 1993.

2.1. Road accidents

The number of accidents in 1994 rose to some 15,720 showing an increase of about 7% over that of 1993. This increase is much more consequential than that observed in 1993 when it was 2% higher but is similar to that of 1992.

Although the number of accidents per 100,000 population rose from 1,378 in 1993 to 1,459 in 1994, the rate of traffic accidents per 1,000 registered motor vehicles remained at the previous year's level of 91.

2.2. Motor vehicles involved in accidents

In 1994, the number of vehicles involved in road accidents reached 26,725 as compared to 25,240 in 1993, representing an increase of 6%. However the rate per 1,000 registered motor vehicles remained at 154, more or less at the same level a year ago.

Private cars, vans and motor/autocycles accounted for about 75% of all vehicles involved accidents which is similar to that observed in 1993.

2.3. Casualties

The number of casualties during 1994 dropped from 4,160 in 1993 to 3,887 in 1994, a decrease of about 6.6%. Of the total number, 154 were fatal and 314, seriously injured. The fatality rate, that is, the rate per 100,000 population dropped slightly from 14.8 in 1993 to 14.3 in 1994.

The most vulnerable class of road users continued to be riders of auto/motor cycles which accounted for 34% of all road accident casualties followed by pedestrians (31%) and passengers (19%). In 1993 they accounted for 33%, 29% and 22% respectively.

2.4. Hit and run cases

The number of Hit & Run cases recorded by the police stations in 1994 was 505 of which 64 were accidents involving vehicle and pedestrian and the remaining vehicle against vehicle.

Central Statistical Office,
Ministry of Economic Planning
and Development,
Port Louis.

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Definitions and General Notes

A. Vehicle Statistics:

1. Data refer to all vehicles registered at the National Transport Authority. Pedal cycles are therefore excluded.
2. The classification of vehicles used in this report, follows the definition given in Section 4 of the Road Traffic Act of 1962.

3. Vehicles include:

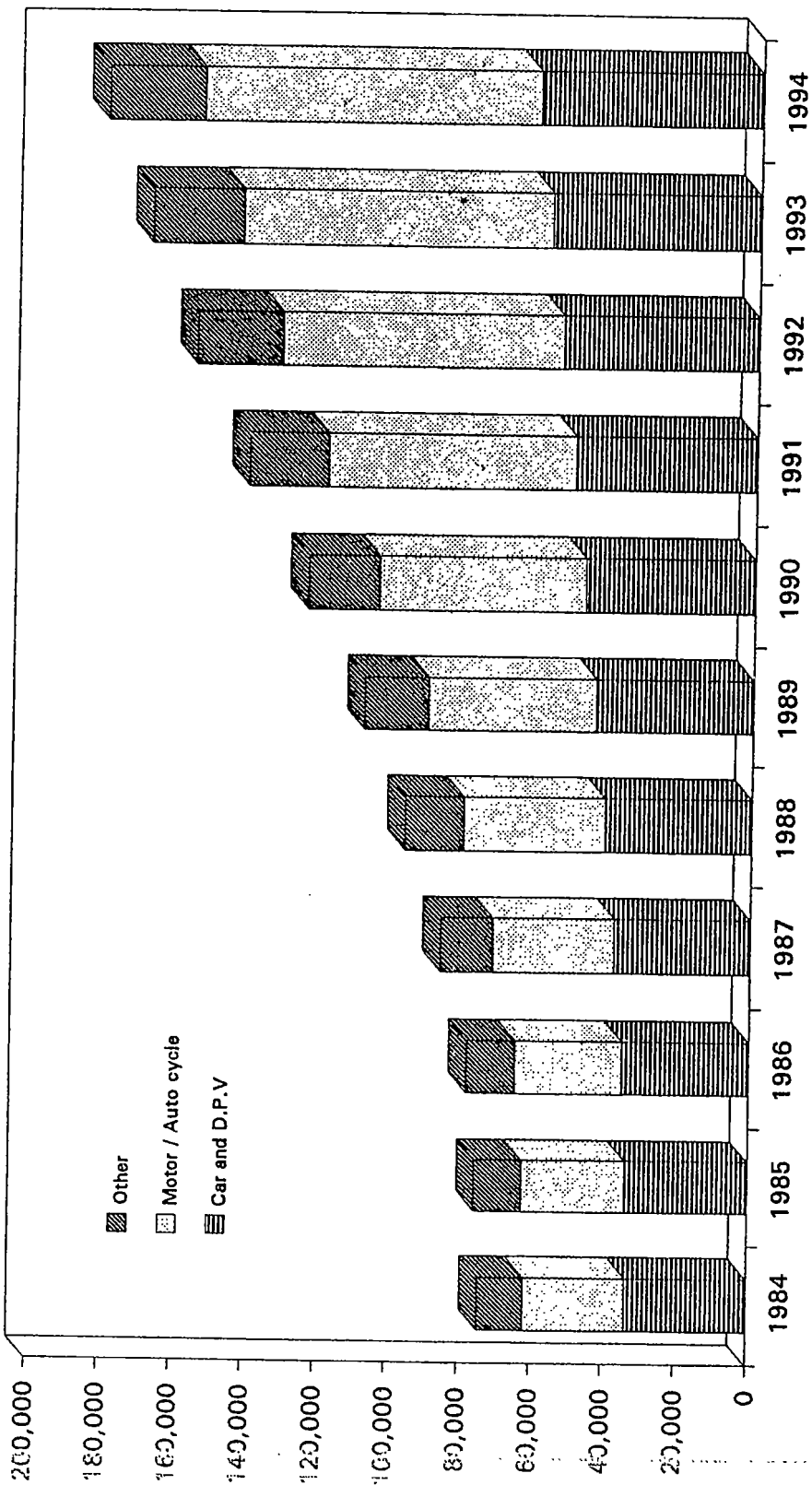
(a) motor vehicles, that is, power-driven vehicles normally used for carrying persons or goods by road or for drawing vehicles used for carrying persons or goods. Examples are car, dual purpose vehicle, heavy motor car, auto/motor cycles, lorry, van, bus, tractor etc.

and (b) non-motorised vehicles, for example trailer.

B. Road Traffic Accident:

1. Accidents refer to all road accidents as reported at the police stations.
2. Casualties: refer to the total number of fatalities and injuries resulting from road accidents.
3. Fatal: Death occurring within seven days as a result of the accident.
4. Seriously Injured: Fracture, concussion, internal crushings, severe cuts and laceration, severe general shock requiring medical treatment.
5. Slightly Injured: Secondary injuries such as sprain, bruises and cut not judged to be severe.

Fig. 1.1 - Stock of registered vehicles , 1984 - 1994



Type of vehicle	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Car and Equal Purpose Vehicle	33,486	33,982	35,124	37,544	40,566	43,379	46,793	50,016	53,945	57,393	61,378
Motor cycle and autocycle	28,105	28,528	29,564	33,560	39,093	46,404	57,094	68,574	77,736	85,540	92,970
Other	12,778	13,085	13,541	14,573	16,181	17,730	19,658	21,664	23,639	25,225	26,536
Total	74,369	75,595	78,229	85,677	95,840	107,513	123,545	140,254	155,320	168,158	180,884

Table 1.1 - Vehicles¹ Registered, 1984 - 1994

Type of vehicle	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Car	26,274	26,455	27,053	28,337	30,283	31,919	33,916	35,673	37,696	39,511	41,355
Dual Purpose Vehicle	7,212	7,527	8,071	9,207	10,283	11,460	12,877	14,343	16,246	17,882	20,023
Heavy Motor Car	373	400	423	454	517	624	695	766	799	826	848
Motor Cycle	8,882	9,014	9,205	9,436	9,912	10,560	11,937	14,740	16,880	18,829	20,461
Auto Cycle	19,223	19,514	20,359	24,124	29,181	35,844	45,157	53,834	60,859	66,711	72,509
Lorry & Truck	4,671	4,717	4,838	5,057	5,534	5,906	6,564	7,226	7,776	8,166	8,559
Van	3,265	3,440	3,636	4,115	4,788	5,600	6,637	7,602	8,749	9,663	10,292
Bus	1,364	1,369	1,360	1,529	1,771	1,858	1,929	2,021	2,097	2,217	2,276
Tractor & Dumper	1,742	1,788	1,863	1,940	2,013	2,078	2,156	2,274	2,356	2,413	2,478
Prime Mover	116	120	130	145	164	182	185	197	212	228	249
Trailer	976	983	997	1,039	1,083	1,151	1,155	1,231	1,288	1,333	1,428
Road Roller	105	97	91	87	101	98	94	96	100	106	106
Other	166	171	203	207	210	233	243	251	262	273	300
TOTAL	74,369	75,595	78,229	85,677	95,840	107,513	123,545	140,254	155,320	168,158	180,884
<i>Index</i>	100	102	105	115	129	145	166	189	209	226	243

¹ Excluding pedal cycles

Table 1.2 - Registration of Vehicles , 1994

Type	No. of Vehicles at 31.12.93	New Vehicles	Used Imported Vehicles	Re - Registered Vehicles	Vehicles off the Road ¹	No. of Vehicles at 31.12.94	Change 1994/1993
Car	39,511	1,438	1,132	454	1,180	41,355	1,844
Dual Purpose Vehicle	17,882	1,541	583	243	226	20,023	2,141
Moto: Cycle	18,829	1,887	11	233	499	20,461	1,632
Auto: Cycle	66,711	6,345	12	740	1,299	72,509	5,798
Lorry and Truck	8,166	348	200	90	245	8,559	393
Van	9,663	672	65	102	210	10,292	629
Bus	2,217	193	2	3	139	2,276	59
Other:	5,179	217	38	73	98	5,409	230
TOTAL	168,158	12,641	2,043	1,938	- 3,896	180,884	12,726

¹ Unlicensed either temporarily or permanently

Table 1.3 - Age composition of cars and dual purpose vehicles , 1993 - 1994

Age group (Years)	as at 31st December 1993		as at 31st December 1994	
	Number	%	Number	%
< 5	21,082	37	22,675	37
5 < 10	11,469	20	14,010	23
10 < 15	3,342	6	3,697	6
≥ 15	21,500	37	20,996	34
TOTAL	57,393	100	61,378	100

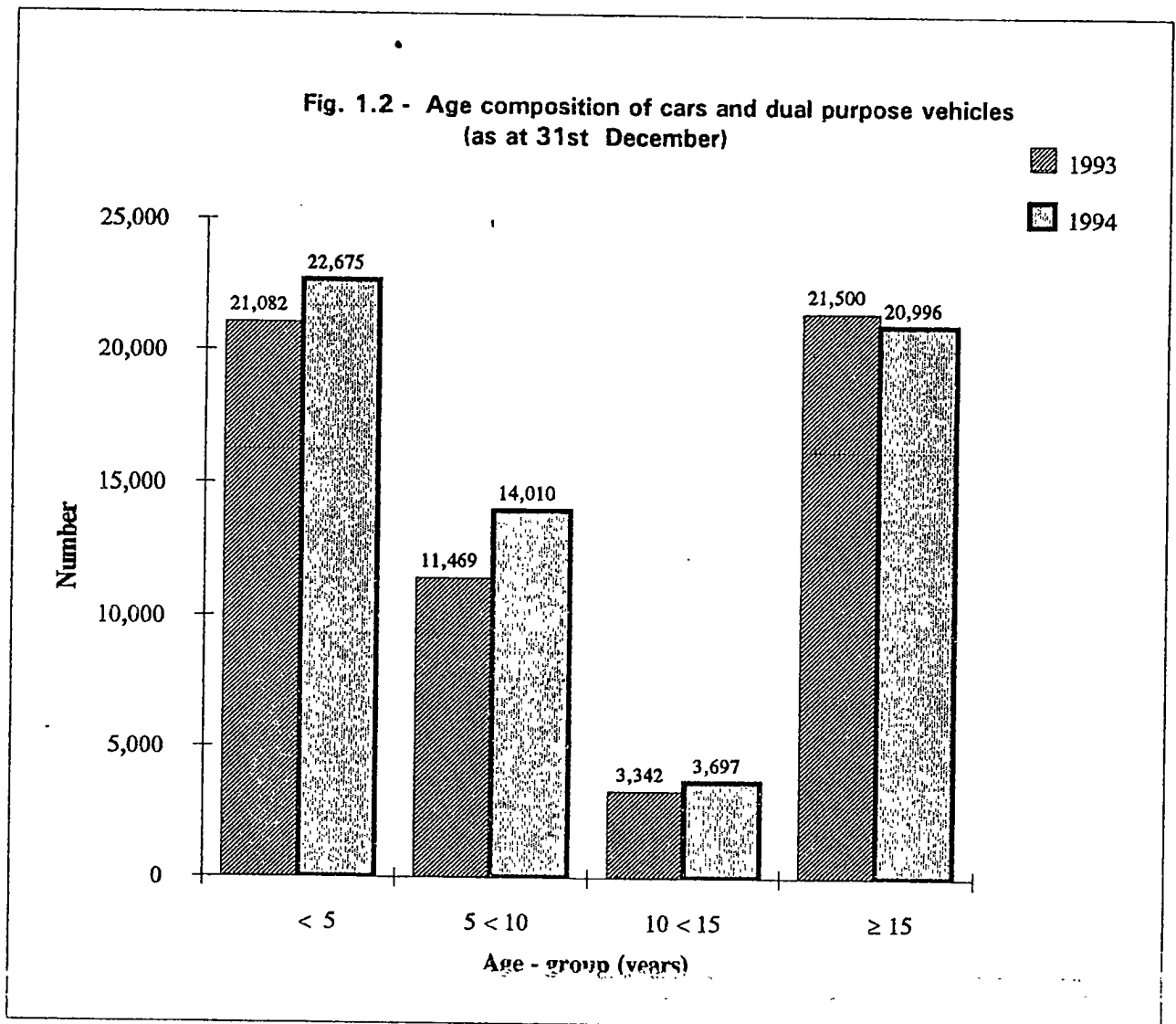


Table 1.4 - Age composition of operational bus fleet ¹, 1993 - 1994

Age group (Years)	as at 31st December 1993		as at 31st December 1994	
	Number	%	Number	%
< 4	541	33	626	36
4 < 8	629	38	649	38
8 < 12	117	7	131	8
12 < 16	317	19	252	15
16 < 18	59	3	57	3
Total	1,663	100	1,715	100

¹ Refers only to buses with a Road Service Licence, i.e., buses which operate on proclaimed routes and charge individual fares

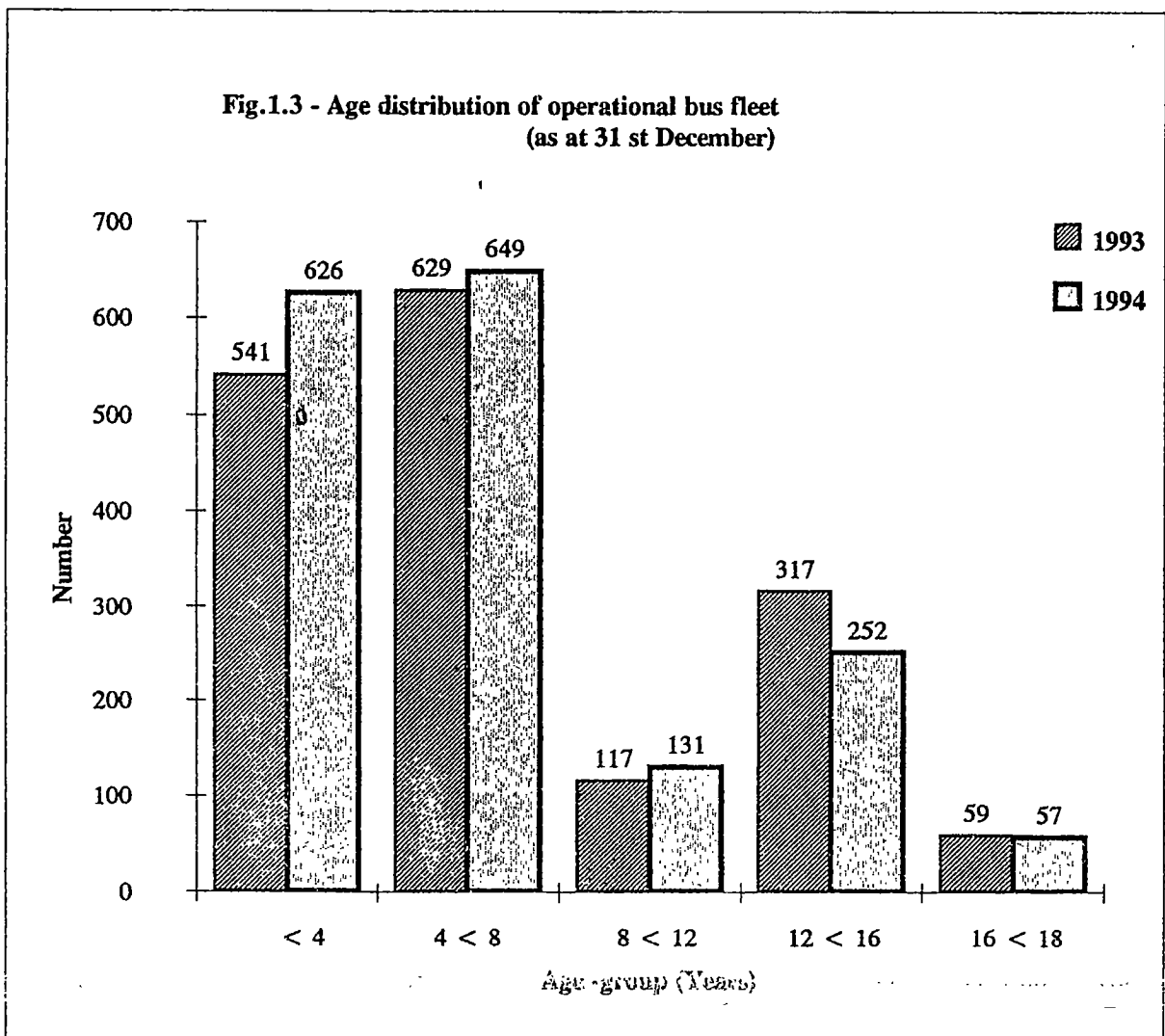


Table 1.5 - Imports of motor vehicles¹ by country of origin

Country	1993		Jan. - Sept. 1993		Jan. - Sept. 1994	
	Quantity (Number)	C.I.F. Value Rs.'000.	Quantity (Number)	C.I.F. Value Rs.'000.	Quantity (Number)	C.I.F. Value Rs.'000.
Japan	8,575	1,018,443	6,806	787,801	4,240	777,100
France	4,134	179,891	2,948	123,190	3,508	167,930
United Kingdom	395	86,360	243	55,173	464	109,798
India	3,106	75,949	2,044	61,722	1,902	43,927
Germany	204	64,018	145	47,959	311	82,901
South Africa	151	37,847	54	18,173	265	46,286
Malaysia	127	17,586	99	13,108	71	10,864
Spain	121	14,737	65	7,984	166	21,433
Korea Rep.	177	12,649	120	5,814	268	24,624
Italy	170	10,378	147	6,455	29	6,483
Indonesia	24	2,776	12	1,399	24	2,857
Pakistan	140	2,189	140	2,189	100	1,867
Portugal	16	1,601	16	1,601	--	--
Korea Dem.	11	1,335	11	1,335	--	--
China	30	1,260	30	1,260	34	2,344
Taiwan	--	--	--	--	361	3,815
Singapore	--	--	--	--	14	4,123
Netherlands	--	--	--	--	14	12,288
Other	60	91,907	43	87,240	58	33,212
Total	17,441	1,618,926	12,923	1,222,404	11,829	1,351,853

¹ Include all motorised vehicles, (cars, auto/motor cycles, etc.)

Table 1.6 - Imports of vehicles¹ spare parts by country of origin

Country	1993		Jan. - Sept. 93		Jan. - Sept. 94	
	Quantity (M \ Ton)	C.I.F. Value Rs.'000.	Quantity (M \ Ton)	C.I.F. Value Rs.'000.	Quantity (M \ Ton)	C.I.F. Value Rs.'000.
Japan	275	40,171	205	34,719	192	29,074
South Africa	163	22,313	152	21,630	87	8,096
United Kingdom	481	25,278	344	20,440	350	16,315
France	125	22,795	92	16,712	102	21,875
India	198	10,416	164	8,906	115	7,750
Germany	45	9,908	40	8,156	30	7,918
Taiwan	82	7,182	55	5,417	73	6,483
U.S.A	23	6,595	20	5,096	21	6,233
Italy	37	6,576	21	4,490	34	6,448
Malaysia	59	5,340	45	3,643	54	5,013
Singapore	50	1,964	37	1,453	18	1,106
Spain	7	1,360	7	1,277	9	2,061
China	54	1,676	36	1,013	44	1,138
Belgium	3	1,100	3	913	4	935
Thailand	6	666	4	478	6	247
Other	10	1,851	9	1,574	13	2,787
Total	1,619	165,193	1,234	135,915	1,153	123,480

¹ Excluding pedal cycle

Table 2.1 - Road Traffic Accidents¹, 1993,1994

	1993	1994	Change	
			Number	%
1. Road Traffic Accidents				
Number of accidents	14,652	15,722	1,070	+7.3
Rate per 100,000 population	1,378	1,459	N.A ²	N.A ²
Rate per 1,000 registered motor-vehicles	91	91	N.A ²	N.A ²
2. Motor-vehicles				
Number of vehicles involved	25,240	26,725	1485	+6.0
Rate per 1,000 registered motor-vehicles	156	154	N.A ²	N.A ²
3. Casualties				
Total number of casualties	4,160	3,887	- 273	- 6.6
Fatal	157	154	- 3	- 1.9
Seriously injured	322	314	- 8	- 2.5
Slightly injured	3,681	3,419	- 262	- 7.1

¹ Exclude number of accidents involving bicycles only

² N.A : Not applicable

Fig. 2.1(a) - Evolution of vehicles registered (1984 - 1994)

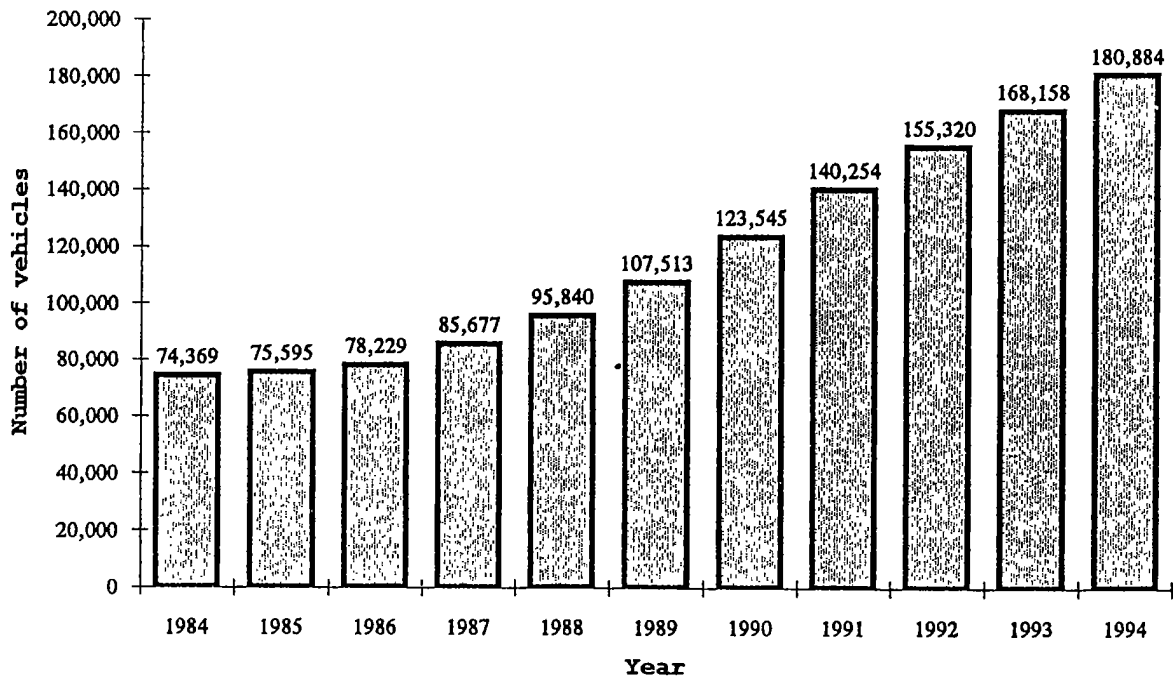


Fig. 2.1 (b) - Evolution of road accidents (1984 - 1994)

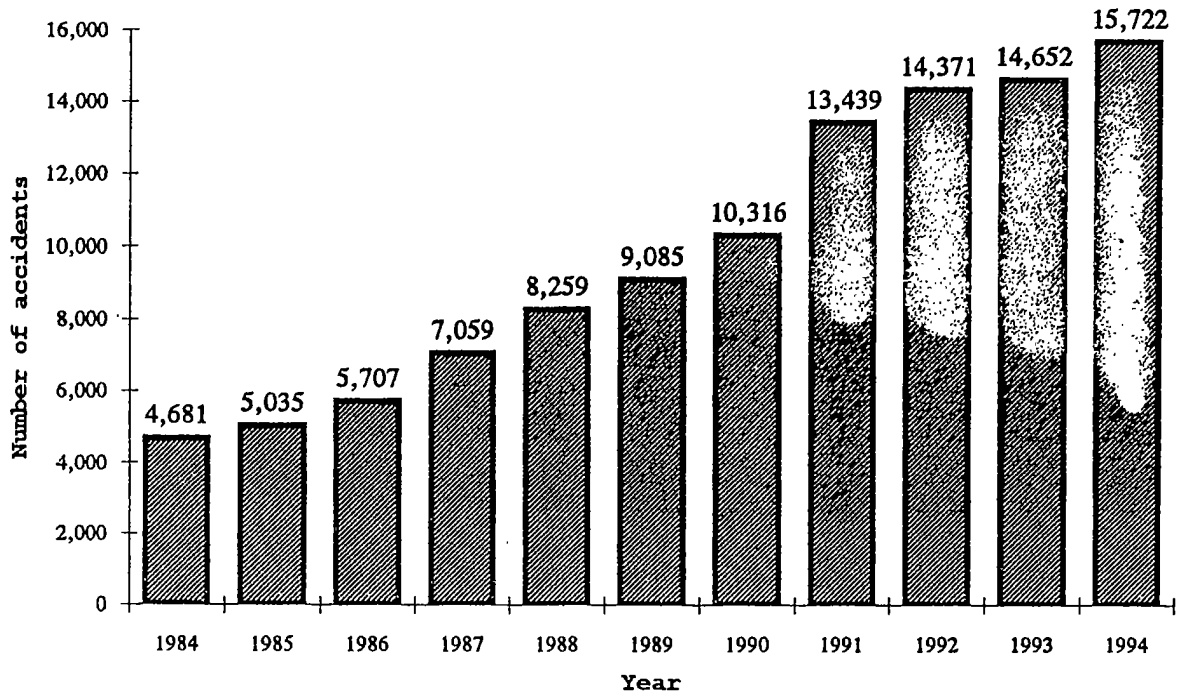


Table 2.2 - Road traffic accidents ¹ and casualties, 1984 -1994

	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>
1. Road traffic accidents :											
Number	4,681	5,035	5,707	7,059	8,259	9,085	10,316	13,439	14,371	14,652	15,722
Rate per 100,000 population	479	511	574	703	812	893	1,007	1,297	1,369	1,378	1,459
Rate per 1,000 registered motor vehicles	63	67	74	87	91	89	90	102	97	91	91
2. Motor vehicle involved:											
Number	7,538	8,235	9,410	11,869	14,153	15,489	17,562	22,835	24,549	25,240	26,725
Rate per 1,000 registered	102	110	123	147	156	152	153	173	166	156	154
3. Casualties:											
Total number of casualties	2,329	2,685	2,834	3,294	3,004	3,141	3,575	4,025	4,395	4,160	3,887
of which											
Fatal	82	104	109	112	122	130	144	168	119	157	154
Seriously injured	253	266	226	255	282	250	315	296	378	322	314
Slightly injured	1,994	2,315	2,499	2,927	2,600	2,761	3,116	3,561	3,898	3,681	3,419
4. Fatality :											
rate per 100,000 population	8.4	10.6	11.0	11.2	12.0	12.6	13.9	16.2	11.3	14.8	14.3
rate per 1,000 registered motor vehicle	1.1	1.4	1.4	1.4	1.3	1.3	1.3	1.3	0.8	1.0	0.9
index ²	3.5	3.9	3.8	3.4	4.1	4.1	4.0	4.2	2.7	3.8	4.0

¹ Exclude number of accidents involving bicycles only

² Fatality index is the ratio of the number of fatalities to the total number of casualties expressed as a percentage

Table 2.3 - Vehicles¹ involved in accidents by type of vehicle, 1993 - 1994

Type of vehicle	1993			1994		
	Jan-Jun	Jul-Dec	Year	Jan-Jun	Jul-Dec	Year
	Number	Number	Number %	Number	Number	Number %
Private car	4,979	5,723	10,702 41.6	5,329	6,118	11,447 42.1
Taxi car	851	1,145	1,996 7.8	1,096	1,228	2,324 8.6
Bus	982	1,106	2,088 8.1	1,049	1,096	2,145 7.9
Lorry	730	1,002	1,732 6.7	796	869	1,665 6.1
Van	1,640	1,929	3,569 13.9	1,890	1,995	3,885 14.3
Motor/Auto cycle	2,432	2,506	4,938 19.2	2,465	2,600	5,065 18.6
Pedal cycle	161	320	481 1.9	203	218	421 1.6
Other motor vehicle	53	134	187 0.7	90	104	194 0.7
Other non-motor vehicle	4	8	12 0.1	21	15	36 0.1
All vehicles	11,832	13,873	25,705 100.0	12,939	14,243	27,182 100.0

¹ Only three main vehicles have been considered in accidents involving more than three vehicles

Fig 2.2 - Vehicles involved in accidents by type of vehicle , 1994

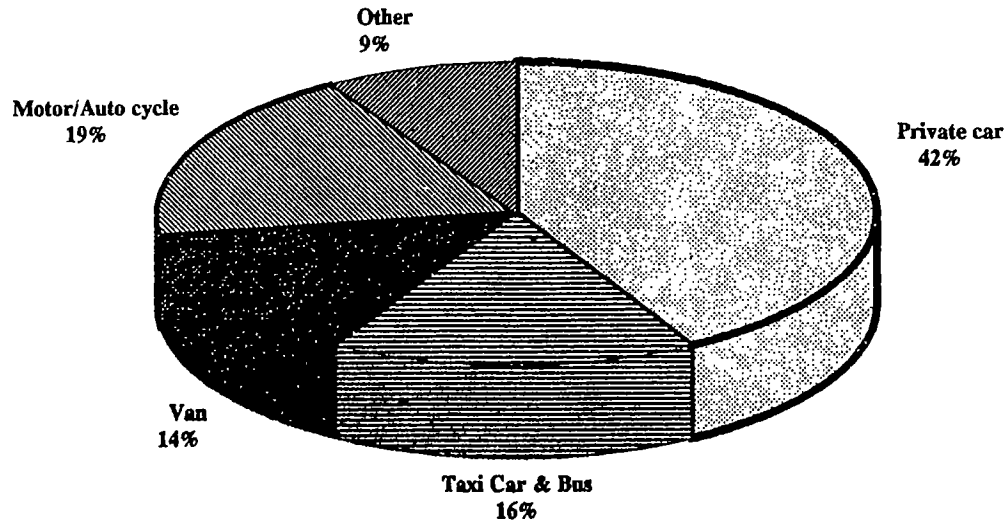


Table 2.4 - Casualties by class of road users , 1993 - 1994

Class of Road users	1993				1994			
	Jan-Jun	Jul-Dec	Year		Jan-Jun	Jul-Dec	Year	
	Number	Number	Number	%	Number	Number	Number	%
Pedestrian	575	638	1213	29	584	611	1195	31
Passenger	461	437	898	22	390	336	726	19
Driver	135	164	299	7	136	141	277	7
Rider	691	701	1392	33	641	711	1352	34
Pedal cyclist	172	186	358	9	156	181	337	9
All road users	2,034	2,126	4,160	100	1,907	1,980	3,887	100

Fig. 2.3 - Casualties by class of road users , 1994

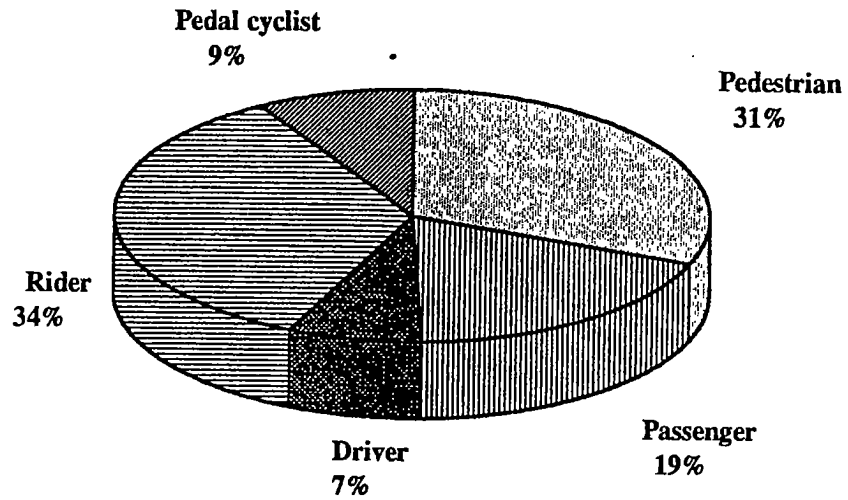


Table 2.5 - Total number of accidents involving hit & run cases , 1994

Accidents \ Period	Jan - June	Jul - Dec	1994
Vehicles v/s Pedestrian	35	29	64
Vehicles v/s Vehicles	220	221	441
Total	255	250	505